

atggggaaaa	cagtcgttgg	ggccagtagg	atgtttctggc	taatgttttt	cgtgccgctt	60
cttcttgccg	totgccccag	cgagcccgcg	catgccctgg	caccgggac	gagccgagtt	120
gagctgttta	agcgggcaaag	ctogaagggtg	ccatttgaaa	agggcgga	agtcacccgag	180
cgggttgccc	actcgttccg	cctccccgcc	cttgttaatg	tggaacgggt	gatgggtgcc	240
atcgcggacg	ctcgtctacga	aacatccaat	gacaactccc	tcattgatac	ggtggcggaag	300
tacagcgtgg	acgatgggga	gacgtgggag	acccaatttg	coatcaagaa	cagtcgtgca	360
tcgtctgttt	ctcgtgtggt	ggatcccaca	gtgattgtga	agggcaacaa	gctttacgtc	420
ctgggttgaa	gctacaaacag	ttcgaggagc	tactggacgt	cgcatgggtga	tgogagagac	480
tgggatattc	tgcttgocgt	tggtgaggtc	acgaagtcca	ctgcggggcg	caagataact	540
gcgagatca	aatgggggag	ccccgtgtca	ctgaagggaat	ttttcccgcc	ggaaatggaa	600
ggaatgcaca	caaatacaatt	tottggcggt	gcagggtgtg	ccattgtggc	gtccaacggg	660
aatcttgtgt	accctgtgca	ggttacgaac	aaaaagaagc	aagttttttc	caagatcttc	720
tactcggag	acgagggcaa	gacgtggaag	tttggggagg	gtaggagtga	ttttggctgc	780
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aacgttgggc	aggtatccat	tggtgatgaa	aattccgcct	acagctccgt	cctgtacaag	1140
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gocgcctgg	ttggcgagct	acggatcatt	aaatcagtgc	tgcagtccctg	gaagaattgg	1260
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ccctcagctc	ccgctgacag	cagtgcccac	agtacgccct	cagctcccg	tgacaacggg	2700
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ggtgacagca	gtgcccacag	tacgccctca	gctcccgcgtg	acagcagtg	ccacagtacg	3000
ccctcagctc	ccggtgacaa	cgggtgccac	agtacgccct	cgaactcccg	tgacaacggg	3060
gctaattgga	cgggttttgat	tttgcaagat	ggcgtgcat	tttcggcctt	ttcggggcga	3120
gggctctttt	tgtgtgcggg	tgcttgcgtg	ctgcacgtgt	tcgttatggc	agtttttttc	3180
tga						3183

FIG.1

MGKTVVGASRMFWLMEFFVPLLLALCPSEPAHALAPGSSRVELFK
RQSSKVPFEKGGKVTERVHSEFRPALVNVDGVMVALADARYETSDNLSLIDTVAKYS
VDDGETWETQIALKNSRASSVRVDETVIVKGNKLYVLVGSYNSRSYWTSHGDARD
WDILLAVGEVTKSTAGGKITASIKWGSPLKEFFPAEMEGMHTNQFLGGAGVALVAS
NGNLVYPVQVTNKKQVFSKIFYSEDEGKTWKFGEGRSDFGCSEPVALEWEGKLIINT
RVDYRRRLVYESSDMGNSWVEAVGTLRSRVWGPSKSNQPGSQSSFTAVTIEGMRVMLF
THELNEFKGRWLRDRINLWLTDNQRIYNVGQVSI GDENSAYSSVLYKDDKLYCLHEINS
NEVYSLVFARLVGELRIIKSVLQSWKNWDSHLSSI CTPADPAASSERGCCGPAVTTVG
LVGFLSHSATKTEWEDAYRCVNASTANAERVPNGLKFFAGVGGGALWPVVSQQGONQRYH
FANHAFTLVASVTIHEVPSVASPLLGASLDSSGGKKLLGLSYDEKEHQWQPIYGSTFVT
PTGSWEMGKRYHVLTWANKIGSVYIDGEPLGSGQTVVPDGRTPDISHFYVGGYGRS
DMPTISHVTVNNVLLYNRQINAEIIRTLFLSQDLIGTEAHMGSSSSGSAHSTPSTPAD
NGAHSTPSTPADSSAHSTPSTPADSSAHSTPSAPGDNGAHSTPSTPGDSSAHSTPSTP
ADNGAHSTPSAPADSNAHSTPSTPADNGAHSTPSTPADNGAHSTPSTPGDNGAHSTPS
TPGDSSAHSTPSTPADNGAHSTPSAPADSNAHSTPSTPGDNGAHSTPSAPADSNAHST
PSTPADSSAHSTPSAPGDNGAHSTPSAPADSSAHSTPSAPGDNGAHSTPSAPADNGAH
STPSAPGDNAHSTPSTPADSSAHSTPSTPADSSAHSTPSAPGDNGAHSTPSAPADSS
AHSTPSIPGDSSAHSTPSAPADSSAHSTPSAPGDNGAHSTPSTPADNGANGTVLLIHD
GAAFSAFSGGGLLLCAGALLLHVFMVAVFF

FIG.2

atgctggcac	ccggatcgag	ccgagttgag	ctgtttaagc	ggcaaagctc	gaaggtgcca
tttgaaaagg	acggcaaagt	caccgagcgg	gttgtccact	cgttccgcct	ccccgccctt
gttaatgtgg	acggggtgat	ggttgccatc	gcggacgctc	gctacgaaac	atccaatgac
aactccctca	ttgatacggg	ggcgaagtac	agcgtggacg	atggggagac	gtgggagacc
caaattgcca	tcaagaacag	tcgtgcatcg	tctgtttctc	gtgtggtgga	tcccacagtg
attgtgaagg	gcaacaagct	ttacgtcctg	gttggaaagct	acaacagttc	gaggagctac
tggacgtcgc	atggtgatgc	gagagactgg	gatattctgc	ttgccgttgg	tgaggtcacg
aagtccactg	cgggcggcaa	gataaactgcg	agtatcaaat	gggggagccc	cgtgtcactg
aaggaatttt	ttccggcgga	aatggaagga	atgcacacaa	atcaattttct	tggcgggtgca
ggtgttgcca	ttgtggcgtc	caacgggaat	cttgtgtaco	ctgtgcaggt	tacgaacaaa
aagaagcaag	ttttttccaa	gatcttctac	tcggaagacg	agggcaagac	gtggaagttt
gggaagggtg	ggagcgcttt	tggctgctct	gaacctgtgg	cccttgagtg	ggaggggaag
ctcatcataa	acactcgagt	tgactatcgc	cgccgtctgg	tgtacgagtc	cagtgcacatg
gggaattcgt	ggctggaggc	tgtcggcagc	ctctcacgtg	tgtggggccc	ctcaccaaaa
tcgaaccagc	ccggcagtcg	gagcagcttc	actgccgtga	ccatcgaggg	aatgcgtggt
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tggctgacgg	ataaccagcg	catttataac	gttgggcaag	tatccattgg	tgatgaaat
tccgcctaca	gctccgtcct	gtacaaggat	gataagctgt	actgtttgca	tgagatcaac
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gatccagccg	cttcgtcgtc	agagcgtggt	tgtggtcccg	ctgtcaccac	ggttggtctt
gttggctttt	tgtcgcacag	tgccacccaa	accgaatggg	aggatgcgta	ccgctgcgtg
aacgcaagca	cggcaaatgc	ggagaggggt	ccgaacgggt	tgaagtttgc	gggggttggc
ggagggggcg	tttggcgggt	gagccagcag	gggcagaatc	aacggtatcg	ctttgcaaac
cacgcgttca	ccgtgggtgg	gtcgggtgacg	attcacgagg	ttccgagcgt	cgcgagtcct
ttgctgggtg	cgagcctgga	ctcttctggt	ggcaaaaaac	tcctgggggt	ctcgtacgac
gagaggcacc	agtggcagcc	aatatacgga	tcaacgccgg	tgacgccgac	cggatcgtgg
gagatgggta	agaggtacca	cgtggttctt	acgatggcga	ataaaattgg	ctccgagtac
attgatggag	aacctctgga	gggttcaggg	cagaccgttg	tgccagacga	gaggacgcct
gacatctccc	acttctacgt	tggcgggtat	aaaaggagtg	atatgccaac	cataagccac
gtgacggtga	ataatgttct	tctttacaac	cgtcagctga	atgccgagga	gatoaggacc
ttgtttcttga	gccaggacct	gattgggcacg	gaagcacaca	tggacagcag	cagcgacacg
agtgcctga					

FIG.3

MLAPGSSRVELFKRQSSKVPFEKDGKVTERRVHSTRLPALVNVD
GVMVAIADARYETSNDNSLIDTVAKYSVDDGETWETQIAIKNSRASSVSRVVDPTIV
KGNKLYVLVGSYNSSRSYWTSHGDARDWDILLAVGEVTKSTAGGKITASIKWGSFVSL
KEFFPAEMEGMHTNQFLGGAGVAIVASNGNLVYPVQVTNKKQVFSKIFYSEDEGKTW
KFGKGRSAFGCSEFPVALEWEGKLIINTRVDYRRRLVYESSDMGNSWLEAVGTLSRVWG
PSPKSNQPGSQSSFTAVTIEGMRVMLFTHPLNFKGRWLDRNLNLTNDQRIYNVGQV
SIGDENSAYSSVLYKDDKLYCLHEINSNEVYSLVFARLVGELRIIKSVLQSWKNWDSH
LSSICTPADPAASSSERGCCPAVTTVGLVGFLSHSATKTEWEDAYRCVNASTANAERV
PNGLKFAVGGGALWFPVSQQGQONQRYRFANHAFTVVASVTIHEVPSPVASPLLGAFLDS
SGGKLLGLSYDERHQWQPIYGSTPPTPGSWEMGKRYHVVLTMANKIGSEYIDGEP
EGSGQTVVPDERTPDISHFYVGGYKRSDMPTISHVTNNVLLYNRQLNAEEIRTLFLS
QDLIGTEAHMDSSSDTSA

FIG.4

5/10

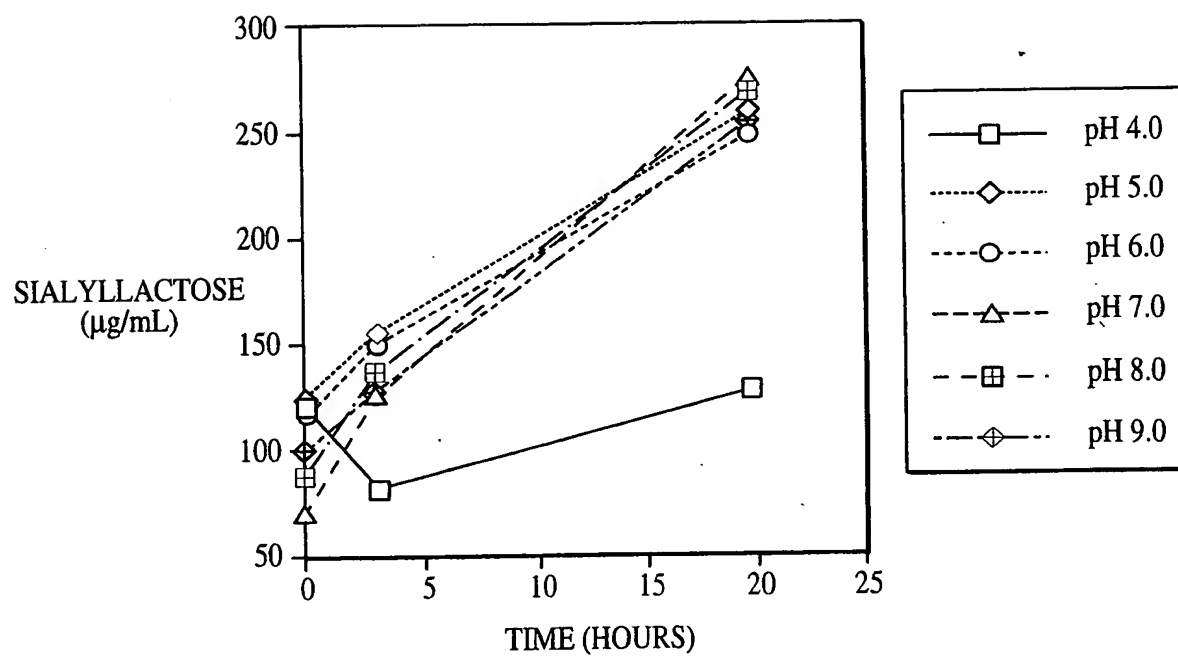


FIG.5

6/10

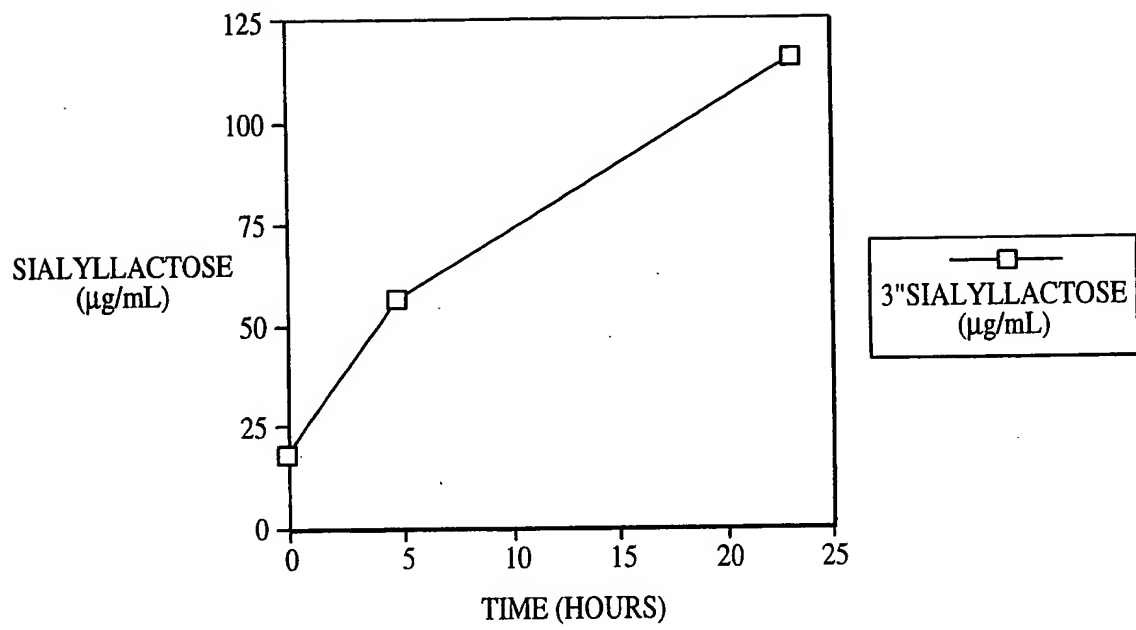


FIG.6

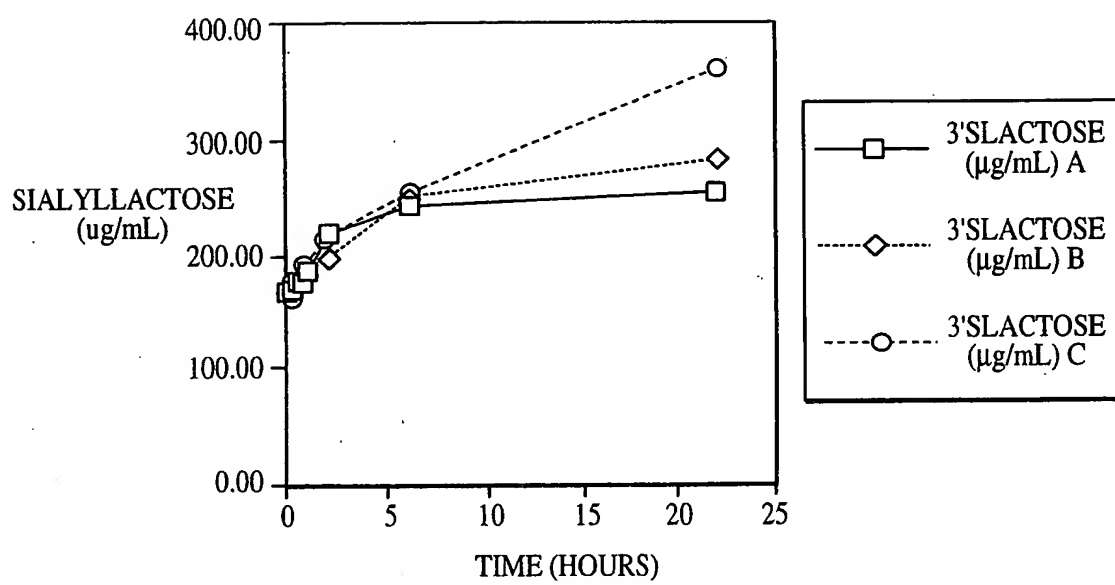


FIG.7A

8/10

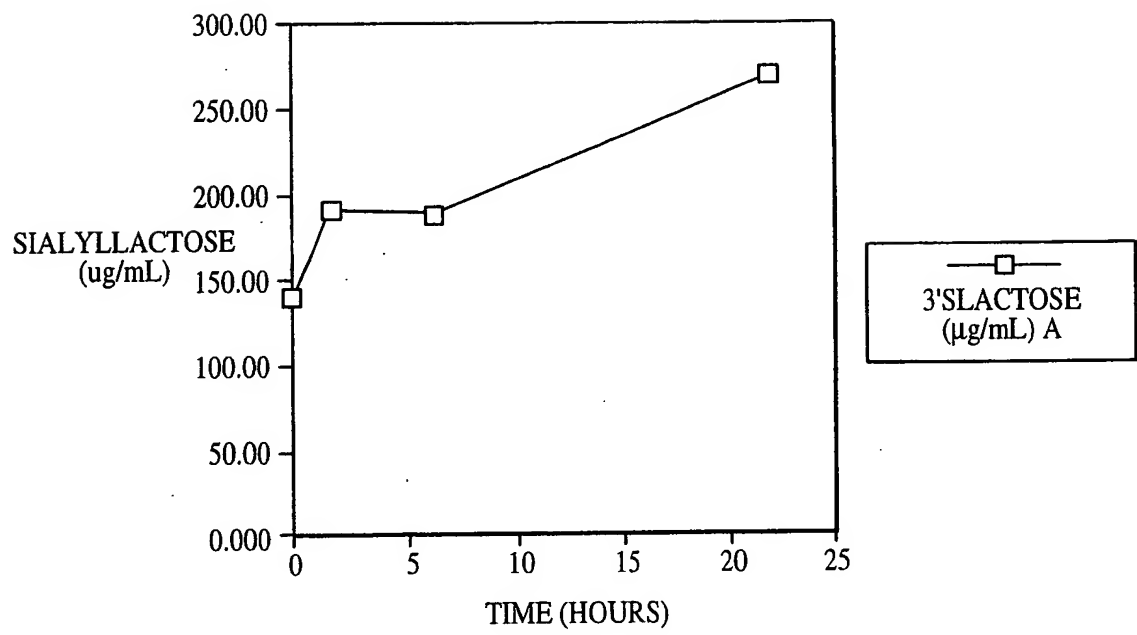


FIG.7B

9/10

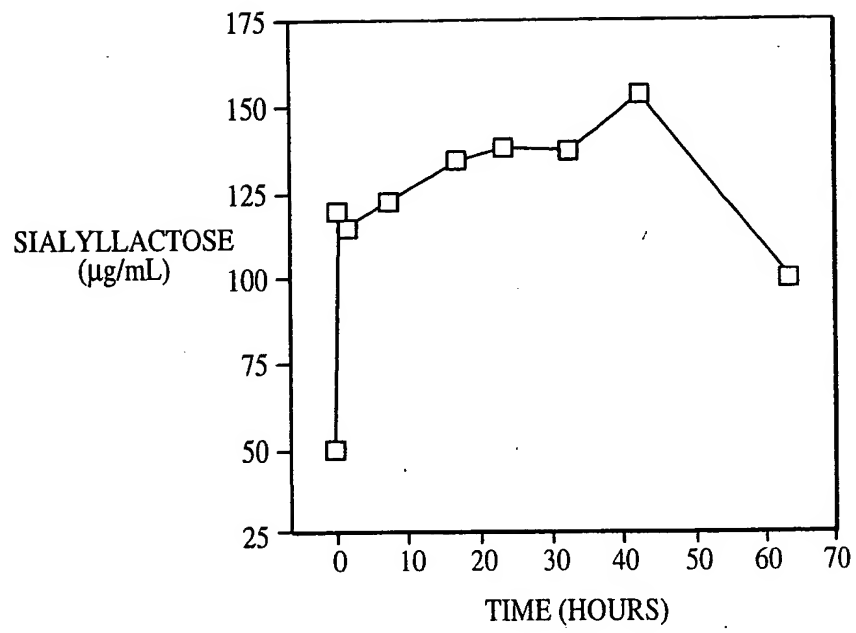


FIG.8

10/10

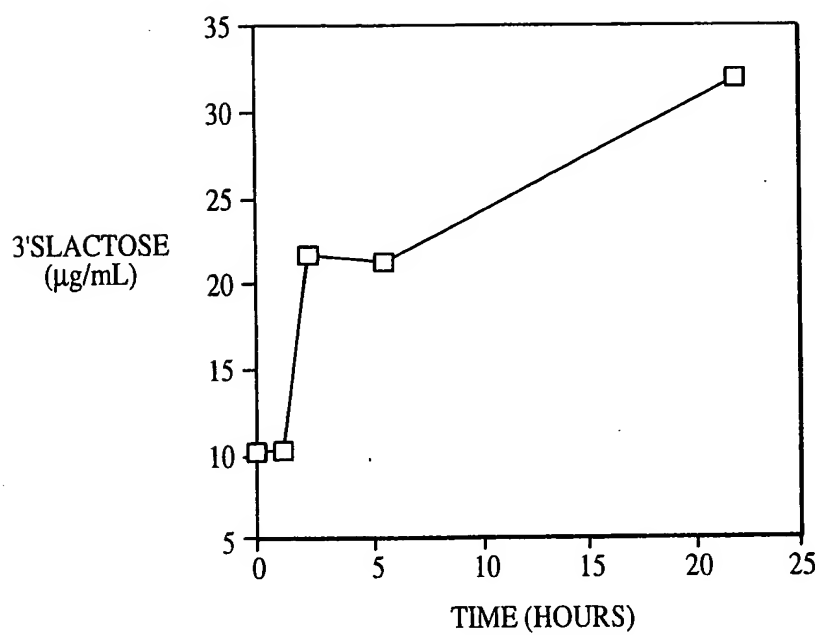


FIG.9